

1 GTCGACGCATGGAGTGGTAGCCGAGGAGGAAGC ATG CTG GCC GTC GGC TGC GCG CTG CTG GCT 63
 1 M L A V G C A L L A 10
 64 GCC CTG CTG GCC GCG CCG GGA GCG GCG CTG GCC CCA AGG CGC TGC CCT GCG CAG GAG GTG 123
 11 A L L A A P G A A L A P R R C P A Q E V 30
 124 GCA AGA GGC GTG CTG ACC AGT CTG CCA GGA GAC AGC GTG ACT CTG ACC TGC CCG GGG GTA 183
 31 A R G V L T S L P G D S V T L T C P G V 50
 184 GAG CCG GAA GAC AAT GCC ACT GTT CAC TGG GTG CTC AGG AAG CCG GCT GCA GGC TCC CAC 243
 51 E P E D N A T V H W V L R K P A A G S H 70
 244 CCC AGC AGA TGG GCT GGC ATG GGA AGG AGG CTG CTG CTG AGG TCG GTG CAG CTC CAC GAC 303
 71 P S R W A G M G R R L L L R S V Q L H D 90
 304 TCT GGA AAC TAT TCA TGC TAC CCG GCC GGC CGC CCA GCT GGG ACT GTG CAC TTG CTG GTG 363
 91 S G N Y S C Y R A G R P A G T V H L L V 110
 364 GAT GTT CCC CCC GAG GAG CCC CAG CTC TCC TGC TTC CGG AAG AGC CCC CTC AGC AAT GTT 423
 111 D V P P E E P Q L S C F R K S P L S N V 130
 424 GTT TGT GAG TGG GGT CCT CGG AGC ACC CCA TCC CTG ACG ACA AAG GCT GTG CTC TTG GTG 483
 131 V C E W G P R S T P S L T T K A V L L V 150
 484 AGG AAG TTT CAG AAC AGT CCG GCC GAA GAC TTC CAG GAG CCG TGC CAG TAT TCC CAG GAG 543
 151 R K F Q N S P A E D F Q E P C Q Y S Q E 170
 544 TCC CAG AAG TTC TCC TGC CAG TTA GCA GTC CCG GAG GGA GAC AGC TCT TTC TAC ATA GTG 603
 171 S Q K F S C Q L A V P E G D S S F Y I V 190
 604 TCC ATG TGC GTC GCC AGT AGT GTC GGG AGC AAG TTC AGC AAA ACT CAA ACC TTT CAG GGT 663
 191 S M C V A S S V G S K F S K T Q T F Q G 210
 664 TGT GGA ATC TTG CAG CCT GAT CCG CCT GCC AAC ATC ACA GTC ACT GCC GTG GCC AGA AAC 723
 211 C G I L L Q P D P P A N I T V T A V A R N 230
 724 CCC CGC TGG CTC AGT GTC ACC TGG CAA GAC CCC CAC TCC TGG AAC TCA TCT TTC TAC AGA 783
 231 P R W L S V T W T W G P H S W N S S F Y R 250
 784 CTA CGG TTT GAG CTC AGA TAT CCG GCT GAA CGG TCA AAG ACA TTC ACA ACA TGG ATG GTC 843
 251 L R F E L R Y R A E R S K T F T T W M V 270
 844 AAG GAC CTC CAG CAT CAC TGT GTC ATC CAC GAC GCC TGG AGC GGC CTG AGG CAC GTG GTG 903
 271 K D L Q H H C V I H D A W S G L R H V V 290
 904 CAG CTT CGT GCC CAG GAG GAG TTC GGG CAA GGC GAG TGG AGC GAG TGG AGC CCG GAG GCC 963
 291 Q L R A Q E E F G Q G E W S E W S P E A 310
 964 ATG GGC ACG CCT TGG ACA GAA TCC AGG AGT CCT CCA GCT CGA GGA GGT GGA GGT TCT GGA 1023
 311 M G T P W T E S R S P P A R G G G S G 330
 1024 GGT GGA GGT TCT GGA GGT GGA GGT TCT GTC GAG CCA GTA CCC CCA GGA GAA GAT TCC AAA 1083
 331 G G G S G G G S V E P V P P G E D S K 350
 1084 GAT GTA GCC GCC CCA CAC AGA CAG CCA CTC ACC TCT TCA GAA CGA ATT GAC AAA CAA ATT 1143
 351 D V A A P H R Q P L T S S E R I D K Q I 370
 1144 CGG TAC ATC CTC GAC GGC ATC TCA GCC CTG AGA AAG GAG ACA TGT AAC AAG AGT AAC ATG 1203
 371 R Y I L D G I S A L R K E T C N K S N M 390
 1204 TGT GAA AGC AGC AAA GAG GCA CTG GCA GAA AAC AAC CTG AAC CTT CCA AAG ATG GCT GAA 1263
 391 C E S S K E A L A E N N L N L P K M A E 410
 1264 AAA GAT GGA TGC TTC CAA TCT GGA TTC AAT GAG GAG ACT TGC CTG GTG AAA ATC ATC ACT 1323
 411 K D G C F Q S G F N E E T C L V K I I T 430
 1324 GGT CTT TTG GAG TTT GAG GTA TAC CTA GAG TAC CTC CAG AAC AGA TTT GAG AGT AGT GAG 1383
 431 G L L E F E V Y L E Y L Q N R F E S S E 450
 1384 GAA CAA GCC AGA GCT GTG CAG ATG AGT ACA AAA GTC CTG ATC CAG TTC CTG CAG AAA AAG 1443
 451 E Q A R A V Q M S T K V L I Q F L Q K K 470
 1444 GCA AAG AAT CTA GAT GCA ATA ACC ACC CCT GAC CCA ACC ACA AAT GCC AGC CTG CTG ACG 1503
 471 A K N L D A I T T P D P T T N A S L L T 490
 1504 AAG CTG CAG GCA CAG AAC CAG TGG CTG CAG GAC ATG ACA ACT CAT CTC ATT CTG CGC AGC 1563
 491 K L Q A Q N Q W L Q D M T T H L I L R S 510
 1564 TTT AAG GAG TTC CTG CAG TCC AGC CTG AGG GCT CTT CGG CAA ATG TAG CATGGGCACCGTCGAC 1627
 511 F K E F L Q S S L R A L R Q M * 525

FIG. 1

1 GTGAGCGC ATG GAG TGG TAG CCGAGGAGGAAGC ATG CTG GCC GTC GGC TGC GCG CTG CTG GCT 63
 1 M L A V G C A L L A 10
 64 GCC CTG CTG GCC GCG CCG GGA GCG GCG CTG GCC CCA AGG CGC TGC CCT GCG CAG GAG GTG 123
 11 A L L A A P G A A L A P R R C P A Q E V 30
 124 GCA AGA GGC GTG CTG ACC AGT CTG CCA GGA GAC AGC GTG ACT CTG ACC TGC CCG GGG GTA 183
 31 A R G V L T S L P G D S V T L T C P G V 50
 184 GAG CCG GAA GAC AAT GCC ACT GTT CAC TGG GTG CTC AGG AAG CCG GCT GCA GGC TCC CAC 243
 51 E P E D N A T V H W V L R K P A A G S H 70
 244 CCC AGC AGA TGG GCT GGC ATG GGA AGG AGG CTG CTG CTG AGG TCG GTG CAG CTC CAC GAC 303
 71 P S R W A G M G R R L L L R S V Q L H D 90
 304 TCT GGA AAC TAT TCA TGC TAC CGG GCC GGC CGC CCA GCT GGG ACT GTG CAC TTG CTG GTG 363
 91 S G N Y S C Y R A G R P A G T V H L L V 110
 364 GAT GTT CCC CCC GAG GAG CCC CAG CTC TCC TGC TTC CGG AAG AGC CCC CTC AGC AAT GTT 423
 111 D V P P E E P Q L S C F R K S P L S G N V 130
 424 GTT TGT GAG TGG GGT CCT CGG AGC ACC CCA TCC CTG ACG ACA AAG GCT GTG CTC TTG GTG 483
 131 V C E W G P R S T P S L T T K A V L L V 150
 484 AGG AAG TTT CAG AAC AGT CCG GCC GAA GAC TTC CAG GAG CCG TGC CAG TAT TCC CAG GAG 543
 151 R K F Q N S P A E D F Q E P C Q Y T C Q E 170
 544 TCC CAG AAG TTC TCC TGC CAG TTA GCA GTC CCG GAG GGA GAC AGC TCT TTC TAC ATA GTG 603
 171 S Q K F S C Q L A V P E G D S S F Y I V 190
 604 TCC ATG TGC GTC GCC AGT AGT GTC GGG AGC AAG TTC AGC AAA ACT CAA ACC TTT CAG GGT 663
 191 S M C V A S S V G S K F S K T Q T F Q G 210
 664 TGT GGA ATC TTG CAG CCT GAT CCG CCT GCC AAC ATC ACA GTC ACT GCC GTG GCC AGA AAC 723
 211 C G I L Q P P A N I T V T A V A R N 230
 724 CCC CGC TGG CTC AGT GTC ACC TGG CAA GAC CCC CAC TCC TGG AAC TCA TCT TTC TAC AGA 783
 231 P R W L S V T W Q D P H S W N S S F Y R 250
 784 CTA CGG TTT GAG CTC AGA TAT CGG GCT GAA CGG TCA AAG ACA TTC ACA ACA TGG ATG GTC 843
 251 L R F E L R Y R A E R S K T F T T W M V 270
 844 AAG GAC CTC CAG CAT CAC TGT GTC ATC CAC GAC GCC TGG AGC GGC CTG AGG CAC GTG GTG 903
 271 K D L H C V I H D A W S G L R H V V 290
 904 CAG CTT CGT GCC CAG GAG GAG TTC GGG CAA GGC GAG TGG AGC GAG TGG AGC CCG GAG GCC 963
 291 Q L R A Q E E F G Q G E W S E W S P E A 310
 964 ATG GGC ACG CCT TGG ACA GAA TCC AGG AGT CCT CCA GCT CGA GGA GGT GGA GGT TCT GGA 1023
 311 M G T P W T E S R S P P A R G G G G S G 330
 1024 GGT GGA GGT TCT GTC GAG CCA GTA CCC CCA GGA GAA GAT TCC AAA GAT GTA GCC GCC CCA 1083
 331 G G G S V E P V P P G E D S K D V A A P 350
 1084 CAC AGA CAG CCA CTC ACC TCT TCA GAA CGA ATT GAC AAA CAA ATT CGG TAC ATC CTC GAC 1143
 351 H R Q P L T S S E R I D K Q I R Y I L D 370
 1144 GGC ATC TCA GCC CTG AGA AAG GAG ACA TGT AAC AAG AGT AAC ATG TGT GAA AGC AGC AAA 1203
 371 G I S A L R K E T C N K S N M C E S S K 390
 1204 GAG GCA CTG GCA GAA AAC AAC CTG AAC CTT CCA AAG ATG GCT GAA AAA GAT GGA TGC TTC 1263
 391 E A L A E N N L P K M A E K D G C F 410
 1264 CAA TCT GGA TTC AAT GAG GAG ACT TGC CTG GTG AAA ATC ATC ACT GGT CTT TTG GAG TTT 1323
 411 Q S G F N E E T C L V K I I T G L L E F 430
 1324 GAG GTA TAC CTA GAG TAC CTC CAG AAC AGA TTT GAG AGT AGT GAG GAA CAA GCC AGA GCT 1383
 431 E V Y L E Y L Q N R F E S S E E Q A R A 450
 1384 GTG CAG ATG AGT ACA AAA GTC CTG ATC CAG TTC CTG CAG AAA AAG GCA AAG AAT CTA GAT 1443
 451 V Q M S T K V L I Q G F L Q K K A K N L D 470
 1444 GCA ATA ACC ACC CCT GAC CCA ACC ACA AAT GCC AGC CTG CTG ACG AAG CTG CAG GCA CAG 1503
 471 A I T T P D P T T N A S L L T K L Q A Q 490
 1504 AAC CAG TGG CTG CAG GAC ATG ACA ACT CAT CTC ATT CTG CGC AGC TTT AAG GAG TTC CTG 1563
 491 N Q W L Q D M T T H L I L R S F K E F L 510
 1564 CAG TCC AGC CTG AGG GCT CTT CGG CAA ATG TAG C ATG GGC ACC GTC GAC 1612
 511 Q S S L R A L R Q M * 520

FIG. 2

Met Asn Ser Phe Ser Thr Ser Ala Phe Gly Pro Val Ala Phe Ser Leu
 Gly Leu Leu Leu Val Leu Pro Ala Ala Phe Pro Ala Pro Val Pro Pro
 Gly Glu Asp Ser Lys Asp Val Ala Ala Pro His Arg Gln Pro Leu Thr
 5 10 15 20
 Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr Ile Leu Asp Gly Ile
 25 30 35
 Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn Met Cys Glu Ser
 40 45 50
 Ser Pro Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu Pro Lys Met Ala
 55 60 65
 Glu Lys Asp Gly Cys Phe Gln Ser Gly Phe Asn Glu Glu Thr Cys Leu
 70 75 80
 Val Lys Ile Ile Thr Gly Leu Leu Glu Phe Glu Val Tyr Leu Glu Tyr
 85 90 95 100
 Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala Arg Ala Val Gln
 105 110 115
 Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys Lys Ala Lys Asn
 120 125 130
 Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn Ala Ser Leu Leu
 135 140 145
 Thr Lys Leu Gln Ala Gln Asn Gln Trp Leu Glu Asp Met Pro Thr His
 150 155 160
 Leu Ile Leu Arg Ser Leu Lys Glu Phe Leu Gln Arg Ser Leu Arg Ala
 165 170 175 180
 Leu Arg Gln Met
 184

FIG. 3

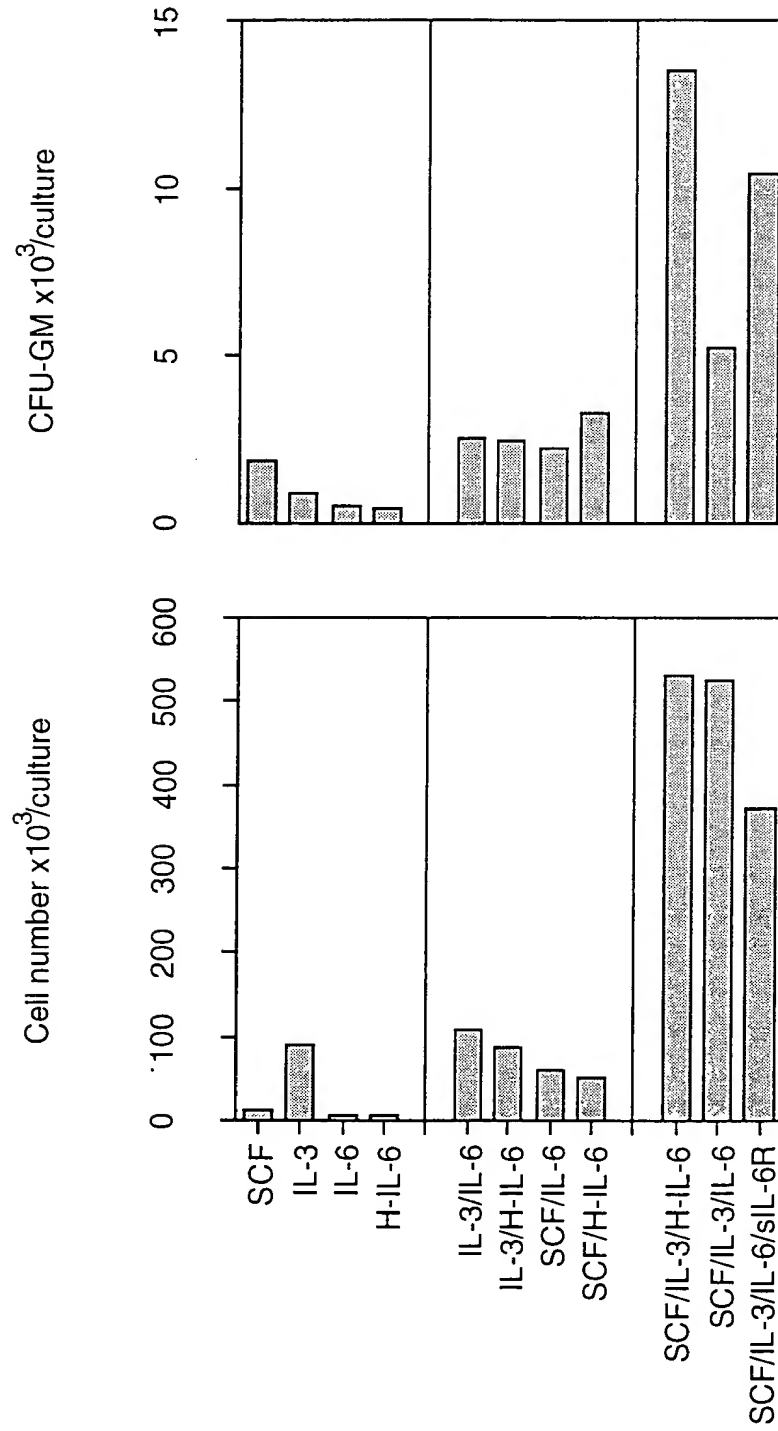


FIG. 4